### CENTRAL INTELLIGENCE AGENCY

# INFORMATION REPORT

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COUNTRY	Hungary	REPORT			
SUBJECT	Factory for Electronic Measuring Equipment	DATE DISTR.	DATE DISTR. 24 November 1		
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	This is UNEVALU.	ATED Information	and a supplication of the	nonhouse.	
	THE SOURCE EVALUATIONS IN THIS THE APPRAISAL OF CONTEN (FOR KEY SEE RE	IT IS TENTATIVE.	· · · · · · · · · · · · · · · · · · ·		
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1.	The Factory for Electronic Measuring E Gyara or EMG) at 2/4 Erzsebet utca in which had branch plants in the city. Branch Plant M at 22 Verpeleti ut in B Bela ut	Budapest was a national:	Meroemueszerek ized enterprise	25X1	
2.	In early 1950, the EMG Plant, which wa complex of Orion Works, became an inde previous "Zelenka Factory for Technica as Branch Plant Z in 1950. the entire enterprise was scheduled to Huevoesvoelgy in the fall of 1952.	pendent nationalized en I Apparatus" was attache	terprise. The ed to the EMG		
3.	The output at the EMG Plant included s frequencies, oscillographs, valve volt factured at Branch Plant Z included te audiometers, PH meters, and oscillating the Hungarian Armed Forces was accepte shipped out by truck. Equipment earma accepted by a commission whose members	meters and wavemeters. lephone filters, electronic crystals. The equipment d by a military commission for delivery to the	Equipment manu- o-cardiographs, nt delivered to ion and then		
4.	The EMG was connected to the municipal	power supply system.			
5.	The following information is available (Material Fabrik) and on Plant Z.	on the production of the	he Material Facto	ory	
	a. Production of the Material Factory	,			
	(1) Signal generator, type 82. This is a copy of an American calibrating radios and for me as follows: 40 x 35 x 20 cm, of the generators are the Hun	asuring frequencies. I its weight is about 25	ts dimensions are kg. Recipients		

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1951 the factory delivered 130 units to the Hungarian Army.

- (2) Small signal generator, type 84.
  Indigenous design. Dimensions: 30 x 25 x 15 cm, weight 6 to 7 kg.
- (3) Special signal generator, type 87.

  The unit is characterized by a particularly good frequency stability.

  Dimensions: 70 x 40 x 40 cm, and weighs 25 kg. Recipients of the units are the Hungarian Army and the USSR.
- (4) VHF transmitters.

  They are of indigenous design for the Hungarian Army. Dimensions: 60 x 30 x 25 cm., weight about 40 kg.
- (5) Large oscillograph, type 101.
  Dimensions: 70 x 50 x 40 cm, weight about 50 kg. Recipients:
  Hungarian Army, the USSR and East Germany.
- (6) Small oscillograph. Dimensions: 50 x 15 x 25 cm (desk shaped), weight about 15 kg.
- (7) Resistance and alternating current measuring instrument. Four-tube unit. Dimensions: 30 x 15 x 15 cm, weight 5 kg.
- (8) Tube voltmeter, type 90, for high frequency.

  Four-tube unit. Dimensions: 25 x 25 x 15 cm, weight 5 kg.
- (9) Tube voltmeter, type 91, for low frequency. Three-tube unit. Dimensions: 20 x 25 x 15 cm, weight 5 kg.
- (10) Frequency meter.
  Dimensions: 40.x 30 x 15 cm, weight about 5 kg.
- (11) Frequency meter.

  New development. Data unknown.
- (12) Plate voltage unit, type 121, for stable currents of 150 to 400 volts. Dimensions: 50 x 45 x ? (sic) cm, weight about 20 kg. Recipients: Hungarian Army and the USSR.
- (13) Morse training unit for 15 to 20 head phones with a four-tube amplifier. Recipient: Hungarian Army.

## b. Production of Plant Z.

- (1) Telephone filter units. Imitations of the American 12-channel filter device. The sample is said to have been bought for \$70,000. It has reportedly been improved. These carrier-frequency installations are said to be in operation on telephone lines from Budapest to Moscow, Szeged, Debrecen, and Sztalinvaros. The installations in Sztalinvaros is said to have been assembled by the Standard enterprise and put into operation on 1 April 1952. Standard is reported to have also shipped this type of equipment to Czechoslovakia and is reported to be expecting additional orders from there.
- (2) Electrocariographs 25X1
- (3) Audiometer. Five of these hearing testing machines were shipped to the Hungarian Army. Mass production has not yet been initiated.

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# CONFIDENTIAL 25X1 -3-(4) P<sub>H</sub>-meter for chemical laboratories. (5) Stabilizing box. This is a wooden box with bifilarly wound resistors and stage selectors. A total of 250 of these boxes were produced by the plant for the Hungarian Army. On the basis of samples released to independent shops, the latter also produced the stabilizing box. These independent shops were consolidated into a cooperative. (6) Oscillating crystals 25X1 25X1 Comment: The January 1954 Budapest telephone book contains the following information: Name: Elektronikus Merokeszülékek Gyára Address: 40479/hrsz (lot number) Cziráky u. (street), Budapest XVI (formerly Sashalom). Accounting: 20 Palffy u., Budapest IV. Plant C: 20 Palffy u., Budapest IV. Plant T: 10 Tó u., Budapest IV. Plant Z: 61 Bartók B. u., Budapest XI.

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